

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Rasanen	Examiner:	UNKNOWN
Serial No.:	TO BE ASSIGNED	Group Art Unit:	TO BE ASSIGNED
Filed:	July 23, 2001	Docket No.:	975.350USW1
Title:	INTERWORKING BETWEEN RADIO ACCESS NETWORKS		

CERTIFICATE UNDER 37 C.F.R. 1.10:

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The undersigned hereby certifies that this Transmittal Letter and the paper or fee, as described herein, are being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

By: 

Kari Arnold

PRELIMINARY AMENDMENT

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Please enter the following preliminary amendment into the above-referenced application.

ABSTRACT

Please insert the attached abstract into the application as the last page thereof.

CLAIMS

Please delete claims 1-21 as follows. Please enter new claims 22-42 as follows. A clean copy of the amended and new claims is included below.

22. (NEW) A method of interworking between different radio access networks, comprising

a radio transceiver device capable of operating with a first radio access network and a second radio access network is attached to said first radio access network; said method comprising the steps of

detecting a service request, wherein said service request is received from the network side;

accessing information on conditions for the first and the second radio access network for giving sufficient support for a service requested by said service request,

analysing whether or not said first radio access network and said second radio access network meets said conditions; and

initiating a handover of said radio transceiver device from said first radio access network to said second radio access network if the second radio access network meets the conditions but the first radio access network does not.

23. (NEW) A method according to claim 22, wherein said conditions comprise a condition whether said requested service exists in the radio access network.

24. (NEW) A method according to claim 22, wherein said conditions depend on each other.

25. (NEW) A method according to claim 24, wherein one of said conditions for the first radio access network is a given amount lower than the corresponding condition for the second radio access network.

26. (NEW) A method according to claim 22, wherein said method is performed in said radio transceiver device.
27. (NEW) A method according to claim 22, wherein said method is performed in a network control device.
28. (NEW) A method according to claim 27, further comprising the step of informing said radio transceiver device of the fact that a handover to said second radio access network is to be initiated.
29. (NEW) A method according to claim 22, wherein said radio transceiver device is a dual mode phone which is adapted to be operated in said first radio access network and said second radio access network.
30. (NEW) A method according to claim 22, wherein either said first or said second radio access network is a GSM network.
31. (NEW) A method according to claim 22, wherein either said second or said first radio access network is a UMTS network.
32. (NEW) A method according to claim 22, wherein said requested service is a circuit-switched service.

33. (NEW) A method according to claim 22, wherein said requested service is a packet service.
34. (NEW) A method according to claim 22, wherein an error procedure is initiated, when it is detected in said analysing step that said requested service is not available in any of said networks.
35. (NEW) A method according to claim 34, in which said error procedure is a notification of the user.
36. (NEW) A method according to claim 22, wherein said radio transceiver device is attached to said first radio access network such that it is located in a cell of said first radio access network and connected by air with said first radio access network.
37. (NEW) A method according to claim 36, wherein said radio transceiver device is also located in a cell of said second radio access network.
38. (NEW) A method according to claim 22, wherein said analysing step also analyses whether a subscriber using said radio transceiver device is entitled to use said requested service.

39. (NEW) A network interworking device for a telecommunication network comprising at least two radio access networks, wherein

a radio transceiver device capable of operating with said first radio access network and said second radio access network is attached to said first radio access network; said device comprising

a detecting means for detecting a service request, wherein said service request is received from the network side,

an analysing means responsive to said detecting means and having the functionality of

accessing information on conditions for said first and said second radio access networks for giving sufficient support for the a service requested by said service request and

analysing whether or not said first radio access network and said second radio access network meet the conditions, and

initiating means responsive to said analysing means, the initiating means being adapted to initiate a handover of said radio transceiver device from said first radio access network to said second radio access network if the respective conditions are not met by said first radio access network but by said second radio access network.

40. (NEW) A network interworking device according to claim 39, wherein said interworking device is arranged in said radio transceiver device.

41. (NEW) A network interworking device according to claim 39, wherein said interworking device is arranged in a network control device.

42. (NEW) A network interworking device according to claim 39, wherein said analysing means is connected to a database for obtaining information regarding said conditions of said requested service.

REMARKS

The above preliminary amendment is made to insert an abstract page into the application and to enter new claims 22-42.

Applicant respectfully requests that this preliminary amendment be entered into the record prior to calculation of the filing fee and prior to examination and consideration of the above-identified application.

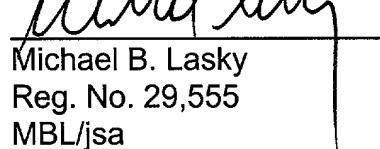
If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicant's attorney of record, Michael B. Lasky at 952-912-0527.

Respectfully submitted,

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Date: July 23, 2001

By:


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